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U.S. Department of Commerce Patent and Trademark Office

Attorney Docket No.: \*ACCINE-07083

Serial No.: 10/630,070

Patent and Trademark Office
INFORMATION DISCLASURE STATEMENT BY APPLICANT

Applicant: David R. Milich et al.

(37 CFR § 1.98(b))					Filing or 371(c) Date: 07/30/2003		Group Art Unit: 1648		
				U.S. PATENT DO	CUMENTS	•			
Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee		Class	Subclass	Filing	Date
MPS	1	5,990,085	11/23/1999	Ireland et al.					
	2	6,887,464	05/03/2005	Coleman et al.					
	3	2003/0099668	05/29/2003	Bachmann et al.					
	4	2004/0054139	03/18/2004	Page et al.					
	5	2004/0146524	07/29/2004	Lyons et al.					
	6	2004/0152876	08/05/2004	Birkett					
V	7	2004/0156864	08/12/2004	Birkett					
MS	8	2004/0219164	11/04/2004	Coleman et al.		<u></u>		_	
		F	OREIGN PATENTS	OR PUBLISHED FO	REIGN PATENT APPI	LICATIONS			
		Document Number	Publication Date	Countr	y / Patent Office	Class	Subclass	Trans	lation
	<u></u>			John J. Labin Office				Yes	No
nks	9	JP7252300	10/03/1995		Japan			х	
	10	WO 95/27083	10/12/1995		WIPO				
	11	WO 99/40934	08/19/1999		WIPO		<u> </u>		
B	12	WO 00/46365	08/10/2000		WIPO		·		
	,	OTHER	DOCUMENTS (Incl	uding Author, Title,	Date, Relevant Pages, Pl	ace of Publication)			
NRS	13	Belnap et al., "Divers	ity of core antigen epi	topes of hepatitis B	virus," Proc Natl Acad S	ci USA, 100:10884-	10889 (2003)		
	14	Fietelson et al., "Core	particles of hepatitis	B virus and ground s	squirrel hepatitis virus,".	J Virol, 43:687-696	(1982)		
	15	Fietelson et al., "Monoclonal antibodies raised to purified woodchuck hepatitis virus core antigen particles demonstrate X antigen reactivity," Virology, 177:357-366 (1990)							
	16	Galibert et al., "Nucleotide sequence of a cloned woodchuck hepatitis virus genome: Comparison with the hepatitis B virus sequence," J Virol, 41:51-65 (1982)							
	17	Gallina et al., "A recombinant hepatitis B core antigen polypeptide with the protamine-like domain deleted self-assembles into capsid particles but fails to bind nucleic acids," J Virol, 63:4645-4652 (1989)							
$T^{-}$	18	Kidd-Ljunggren et al., "Genetic variability in hepatitis B viruses," J Gen Virol, 83:1267-1280 (2002)							
1	19	Koschel et al., "Extensive mutagenesis of the hepatitis B virus core gene and mapping of mutations that allow capsid formation," J Virol, 73:2153-2160 (1999)							
T	20	Marion et al., "A virus in Beechey ground squirrels that is related to hepatitis B virus of humans," Proc Natl Acad Sci USA, 77:241-2945 (1980)							
	21	Mason et al., "Virus of Pekin ducks with structural and biological relatedness to human hepatitis B virus," J Virol, 36:829-836 (1980)							
	22	Milich et al., "Immune response to hepatitis B virus core antigen (HBcAg): Localization of T cell recognition site within HBcAg/HBeAg," J Immunol, 139:1223-1231 (1987)							
	23	Milich et al., "Antibody production to the nucleocapsid and envelope of the hepatitis B virus primed by a single synthetic T cell site," Nature, 329:547-549 (1987)							
	24	Milich et al., "Comparative immunogenicity of hepatitis B virus core and E antigens" J Immunol, 141:3617-3624 (1988)							
1 72	25	Miliman et al., "Imm							

EXAMINER: Initial citation considered from line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No.: VACCINE-07083	Serial No.: 10/630,070			
Ĭ,		ON DISCLOSURE STATEMENT BY APPLICANT	Applicant: David R. Milich et al.				
(37 CFR § 1.98	(b))	(Use Several Sheets If Necessary)	Filing or 371(c) Date: 07/30/2003	Group Art Unit: 1648			
		U.S. PATENT DO	CUMENTS				
MPS	26	Ponzetto et al., "Core antigen and antibody in woodchucks after	r infection with woodchuck hepatitis virus," J	Virol, 52:70-76 (1984)			
	27	Ponzetto et al., "Radioimmunoassay and characterization of wo	odchuck hepatitis virus core antigen and antib	ody," Virus Res, 2:301-315 (1985)			
	28	Pumpens and Grens, "Hepatitis B core particles as a universal display model: A structure-function basis for development," FEBS Letters, 442:1-6 (1999)					
	29	Schodel et al., "Immunization with recombinant woodchuck hepatitis virus nucleocapsid antigen or hepatitis B virus nucleocapsid antigen protects woodchucks from woodchuck hepatitis virus infection," Vaccine, 11:624-628 (1993)					
	30	Shanmuganathan et al., "Mapping of the cellular immune responses to woodchuck hepatitis core antigen epitopes in chronically infected woodchucks," J Med Virol, 52:128-135 (1997)					
	Stannard et al., "Antigenic cross-reactions between woodchuck hepatitis virus and human hepatitis B virus shown by immune electron microscopy," J Gen Virol, 64:975-980 (1983)						
	Tarar et al., "Expression of a human cytomegalovirus gp58 antigenic domain fused to the hepatitis B virus nucleocapsid protein," FEMS Immunol Med Microbiol, 16:183-192 (1996)						
	33	Ulrich et al., "Core particles of hepatitis B virus as carrier for fo	oreign epitopes," Advances in Virus Research,	50:141-182 (1998);			
	34	Werner et al., "Serological relationship of woodchuck hepatitis	virus to human hepatitis B virus," J Virol, 32:	314-322 (1979)			
· ·	35	Zheng et al., "The structure of hepadnaviral core antigens," J Bi	iol Chem, 267:9422-9429 (1992)				
Zlotnick et al., "Localization of the C terminus of the assembly domain of hepatitis B virus capsid protein: Implications for morphoge organization of encapsidated RNA," Proc Natl Acad Sci USA, 94:9556-9561 (1997)							
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Examiner:	an.	Nachol -	Date Considered: 01/3/Cl	,			
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